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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/700,472 11/05/2003 **Edward Green** 000487.00026 7751 **EXAMINER** 22907 7590 06/13/2006 **BANNER & WITCOFF** MEAH, MOHAMMAD Y 1001 G STREET N W ART UNIT PAPER NUMBER **SUITE 1100** WASHINGTON, DC 20001 1652

DATE MAILED: 06/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.		Applicant(s)		
Office Action Summer			10/700,472		GREEN ET AL.		
Office Action Summary			Examiner		Art Unit		
			Mohammad		1652		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) file	d on					
•	·		action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
	Claim(s) is/are rejected.						
	7) Claim(s) is/are objected to.						
8) Claim(s) 1-20 are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 1	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date			4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	FO- <u>1</u> 52)	

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DETAILED ACTION

The claims 1-20 are pending in the instant office action.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Group I. Claims 1-4, 7-12, 15-16, drawn to gram-positive bacterium having alcohol dehydrogenase (adh) activity transformed with pyruvate decarboxylase (pdc) gene, classified in class 435, subclass 252.3.
- Group II. Claims 1, 5-6, 13-14, 17-20, drawn to gram-positive bacterium having alcohol dehydrogenase (adh) activity, transformed with pyruvate decarboxylase (pdc) gene which is further modulated by inactivation of with lactate dehydrogenase (ldh) gene, classified in class 435, subclass 252.3.

The inventions are distinct, each from the other because of the following reasons:

Inventions I- II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions: product of group I comprises adh active bacteria transformed with pdc gene whereas product of group II comprises adh active bacteria transformed with pdc gene and having an inactivated Idh gene. group II gram-

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positive bacterium (transformed with pdc gene and having an inactivated ldh gene) has different function, properties and utilities than gram-positive bacterium (transformed with only pdc gene) of group I such as former bacterium will not produce any lactic acid whereas later one does.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Meah whose telephone number is 571-272-1261. The examiner can normally be reached on 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad Younus Meah, PhD Examiner, Art Unit 1652 Recombinant Enzymes, 3C31 Remsen Bld 400 Dulany Street, Alexandria, VA 22314

Telephone: 517-272-1261

REBECCA E. PROUTY PRIMARY EXAMINER GROUP 1800

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